

pH Control System In-Line Sensor

This sensor is installed directly in the fluid line. As the fluid flows through the unit the end of the pH probe is wetted and the pH is measured.

The sensor is connected to a transmitter which converts the native pH probe signal (mv) into a 4-20mADC signal. This signal is suitable for transmission to a remotely mounted controller (not shown).

The operator puts the desired pH value into the controller as a set point. The controller compares the setpoint with the actual pH value. When the pH drops below the setpoint the controller provides an output signal which is used to operate a solenoid valve or amine pump.

The controller has an adjustable built in time delay which allows it to add amine once every 2 or more measurements as required.

All pH probes require periodic calibration. In order to calibrate, you will need a recent buffer sample of 10, a recent buffer sample of 7, and a pH tester. See literature 04_pH_Calibrating_Sensor (7.1.3) for more information.

Most applications, such as printing, operate for a certain job time. At the end of a job it is important to flush the lines with a water cleaning solution.

As the pH sensor probe must be wet at all times, the Norcross Inline pH Sensor has an integral reservoir area. It is used to trap water and keep the tip of the pH probe wet, during job changes.

